

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claim 1 (currently amended): An image processor comprising:
a first converter which extracts a line image region in input bit map image data and converts the line image to vector data;
a second converter which ~~converts bit map data of pixels in the input bit map image data around the line image of the line image region according to a side where a pixel~~ detects a side where a target pixel in the pixels exists relative to the line image region defined by the vector data and ~~according to~~ converts a value of the bit map data of pixels the target pixel according to a value of the input bit map data around the line image region of the detected side; and
a composer which composes the vector data of the line image obtained by said first converter and the bit map data converted by said second converter.

Claim 2 (original): The image processor according to claim 1, further comprising a character recognizer which recognizes characters in the input bit map data and converts the recognized characters to character codes, wherein said composer composes character data based on the character codes with the vector data and the bit map data.

Claim 3 (canceled)

Claim 4 (original): The image processor according to claim 1, wherein the vector data obtained by said first converter and the bit map data converted by said second converter are stored separately in a storage device, and said composer composes the bit map data and the vector data stored in the storage device.

Claim 5 (original): The image processor according to claim 1, wherein the pixels around the line image region are pixels far from the line image by a predetermined distance.

Claim 6 (original): The image processor according to claim 5, wherein the distance is along a direction perpendicular to the line image.

Claim 7 (original): The image processor according to claim 1, wherein said image processor further comprises an image reader device which reads a document and provides the input bit map data of the document to said first and second converters.

Claim 8 (currently amended): A method of image processing comprising the steps of:

extracting a line image region in input bit map image data;

converting the line image to vector data;

detecting a side where a target pixel in pixels exists relative to the line image region defined by the vector data;

converting a value of the bit map data of pixels in the target pixel according to a value of the input bit map image data around the line image of the line image region according to a side where a pixel in the pixels exists relative to the line image region defined by the vector data and according to the bit map data of pixels around the line image region of the detected side; and

composing the vector data of the line image obtained and the obtained bit map data.

Claim 9 (currently amended): A storage medium, which can be read by a computer, the storage medium storing a program comprising the steps of:

extracting a line image region in input bit map image data;

converting the line image to vector data;

detecting a side where a target pixel in pixels exists relative to the line image region defined by the vector data;

converting a value of the bit map data of pixels in the target pixel according to a value of the input bit map image data around the line image of the line image region according to a side where a pixel in the pixels exists relative to the line image region defined by the vector data and according to the bit map data of pixels around the line image region of the detected side; and

composing the vector data of the line image obtained and the obtained bit map data.